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0590  
PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In Re Application of:

Vogeli et al.

Serial No.: 09/794,058

Group Art Unit: Not Yet Assigned

Filing Date: March 8, 2001

Examiner: Not Yet Assigned

For: NOVEL G PROTEIN-COUPLED RECEPTORS

DATE OF DEPOSIT: June 6, 2001

I HEREBY CERTIFY THAT THIS PAPER IS BEING DEPOSITED WITH THE UNITED STATES POSTAL SERVICE AS FIRST CLASS MAIL, POSTAGE PREPAID ON THE DATE INDICATED ABOVE AND IS ADDRESSED TO THE ASSISTANT COMMISSIONER FOR PATENTS, WASHINGTON, DC 20231.

TYPED NAME: Gwilym J.O. Attwell  
REGISTRATION NO.: 45,449

Assistant Commissioner for Patents  
Washington DC 20231

Dear Sir:

INFORMATION DISCLOSURE STATEMENT

Pursuant to 37 C.F.R. §1.56 and in accordance with 37 C.F.R. §§1.97-1.98, information relating to the above-identified application is hereby disclosed. Inclusion of information in this statement is not to be construed as an admission that this information is material as that term is defined in 37 C.F.R. §1.56(b).

- ☒ In accordance with §1.97(b), since this Information Disclosure Statement is being filed either within three months of the filing date of the above-identified application, within three months of the date of entry into the national stage of the above identified application as set forth in §1.491, before the mailing date of a first Office Action on the merits of the above-identified application, or before the mailing date of a first office action after the filing of request for continued examination under §1.114, no additional fee is required.

- ☐ In accordance with §1.129(a), this Information Disclosure Statement is being filed in connection with ☐the first or ☐second After Final Submission, therefore:
- ☐ Certification in Accordance with §1.97(e) is attached; or
- ☐ The fee of \$180.00 as set forth in §1.17(p) is attached.
- ☐ In accordance with §1.97(c), this Information Disclosure Statement is being filed after the period set forth in §1.97(b) above but before the mailing date of either a Final Action under §1.113 or a Notice of Allowance under §1.311, or before an action that otherwise closes prosecution in the application, therefore:
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- ☐ Copies of each of the references listed on the attached Form PTO-1449 are enclosed herewith.
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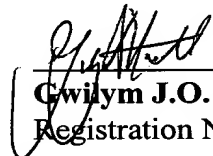
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English language abstracts have been provided for those listed references which are not in the English language.

Date: June 6, 2001

  
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## IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In Re Application of:

Vogeli et al.

Serial No.: ~~092,058~~ 09/801944

Group Art Unit: Not Yet Assigned

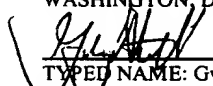
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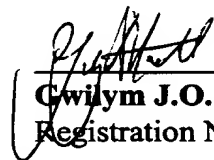
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67/201940

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<b>Form PTO-1449 Modified</b>		Docket No. <b>00100.US1</b>	Serial No. <b>097794,058</b>
List of Patent and Publications Cited by Applicant (Use several sheets if necessary)		Applicant <b>Vogeli et al.</b>	
U.S. Department of Commerce Patent and Trademark Office		Filing Date <b>March 8, 2001</b>	Group <b>Not Yet Assigned</b>
<b>OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)</b>			
	<b>AA</b> /	Akane et al., "Direct Dideoxy Sequencing of Genomic DNA by Ligation-Mediated PCR", <i>Biotechniques</i> , <b>1994</b> , Vol. 16, pp. 238-241	
	<b>AB</b> /	Allen et al., "Modulation of CD4 by Suramin", <i>Clin. Exp. Immunol.</i> , <b>1993</b> , Vol. 91, pp. 141-156	
	<b>AC</b> /	Altschul et al., "Gapped BLAST and PSI-BLAST: a new generation of protein database search programs," <i>Nucl. Acids Res.</i> , <b>1997</b> , 25(17), 3389-3402	
	<b>AD</b> /	Altschul et al., "Basic Local Alignment Search Tool," <i>J. Mol. Biol.</i> , <b>1990</b> , 215, 403-410	
	<b>AE</b> /	American Veterinary Medical Association, <i>Report of the American Veterinary Medical Assoc.</i> , Panel on Euthanasia, <i>Journal of American Veterinary Medical Assoc.</i> , <b>1993</b> , 202, 229-249	
	<b>AF</b> /	Anafi et al., "Tyrphostin-Induced Inhibition of p210 <sup>bc<sup>r</sup>-abl</sup> Tyrosine Kinase Activity Induces K562 to Differentiate", <i>Blood</i> , <b>1993</b> , Vol. 82, No. 12, pp. 3524-3529	
	<b>AG</b> /	Anderson, "Human Gene Therapy", <i>Nature</i> , <b>1998</b> , Suppl. To Vol. 392, No. 3379, pp. 25-20	
	<b>AH</b> /	Anderson, W. F., "Human gene therapy," <i>Science</i> , <b>1992</b> , 256, 808-813	
	<b>AI</b> /	Aujame et al., "High Affinity Human Antibodies by Phage Display", <i>Human Antibodies</i> , <b>1979</b> , Vol. 8, No. 4, pp. 155-168	
	<b>AJ</b> /	Aukrust et al., "Enhanced Levels of Soluble and Membrane-Bound CD40 Ligand in Patients with Unstable Angina. Possible Reflection of T Lymphocyte and Platelet Involvement in the Pathogenesis of Acute Coronary Syndromes", <i>Circulation</i> , <b>1999</b> , Vol. 100, pp. 614-620	
	<b>AK</b> /	Ausubel, et al. (Eds.), "Chapter 6, Screening of recombinant DNA libraries," <i>Current Protocols in Molecular Biology</i> , <b>1994</b> , John Wiley & Sons, 6.0.3-6.4.10	
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09/801944

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<b>Form PTO-1449 Modified</b>  List of Patent and Publications Cited by Applicant (Use several sheets if necessary)  U.S. Department of Commerce Patent and Trademark Office		Docket No. <b>00100.US1</b>	Serial No. <del>09/794,058</del>
		Applicant <b>Vogeli et al.</b>	
		Filing Date <b>March 8, 2001</b>	Group <b>Not Yet Assigned</b>
<b>OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)</b>			
	<b>AL</b> /	Baindur et al., "Selective fluorescent ligands for pharmacological receptors," <i>Drug Dev. Res.</i> , <b>1994</b> , 33, 373-398	
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	<b>AP</b> /	Benoist et al., "In vivo sequence requirements of the SV40 early promoter region," <i>Nature</i> , <b>1981</b> , 290, 304-310	
	<b>AQ</b> /	Bertino, <i>Cancer Res.</i> , "Toward Improved Selectivity in Cancer Chemotherapy: The Richard and Hinda Rosenthal Foundation Award Lecture", <b>1979</b> , Vol. 3, pp. 293-304	
	<b>AR</b> /	Bilder et al., "Tyrphostins Inhibit PDGF-induced DNA Synthesis and Associated Early Events in Smooth Muscle Cells", <i>Amer. Physiol. Soc.</i> , <b>1991</b> , pp. 6363-6143:C721-C730	
	<b>AS</b>	Birney, E., et al., "PairWise and SearchWise: finding the optimal alignment in a simultaneous comparison of a protein profile against all DNA translation frames," <i>Nucleic Acids Res.</i> , <b>1996</b> , 24(14), 2730-2739	
	<b>AT</b> /	Blouin, J-L. et al., "Schizophrenia susceptibility loci on chromosomes 13q32 and 8p21," <i>Nature Genetics</i> , <b>Sept. 1988</b> , 20, 70-73	
	<b>AU</b>	Bohm, S. K., et al., "Regulatory mechanisms that modulate signalling by G-protein-coupled receptors," <i>Biochem. J.</i> , <b>1997</b> , 322, 1-18	
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09/80/944

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<b>OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)</b>			
	<b>AV</b>	Bossé, R., et al., "Development of nonseparation binding and functional assays for G protein-coupled receptors for high throughput screening: Pharmacological characterization of the immobilized CCR5 receptor on FlashPlate®," <i>J. Biomolecular Screening</i> , <b>1998</b> , 3(4), 285-292	
	<b>AW</b>	Boulton, T. G., et al., "ERKs: A family of protein-serine/threonine kinases that are activated and tyrosine phosphorylated in response to insulin and NGF," <i>Cell</i> , <b>1991</b> , 65, 663-675	
	<b>AX</b>	Bowie, J. U., et al., "Deciphering the Message in Protein Sequences: Tolerance to Amino Acid Substitutions," <i>Science</i> , <b>March 1990</b> , 247, 1306-1310	
	<b>AY</b>	Boyer, J. L., et al., "Molecular Cloning and Expression of an Avian G Protein-Coupled P2Y Receptor," <i>Molecular Pharmacology</i> , <b>1997</b> , 52, 928-934	
	<b>AZ</b>	Breedon, L., et al., "Regulation of the yeast HO gene," <i>Cold Spring Harb. Symp. Quant. Biol.</i> , <b>1985</b> , 50, Vol. 1, <i>Molecular Biology of Development</i> , 643-650	
	<b>BA</b>	Bruggemann, M., et al., "Production of human antibody repertoires in transgenic mice," <i>Curr. Opin. Biotechnol.</i> , <b>1997</b> , 8, 455-458	
	<b>BB</b>	Bruggemann, M., et al., "Strategies for expressing human antibody repertoires in transgenic mice," <i>Immunol. Today</i> , <b>1996</b> , 17(8), 391-397	
	<b>BC</b>	Brunton, V. G., et al., <i>Proceedings of Amer. Assoc. Cancer Res.</i> , No. 3335, <b>1992</b> , 33, 558	
	<b>BD</b>	Bryckaert, M., et al., "Inhibition of platelet-derived growth factor-induced mitogenesis and tyrosine kinase activity in cultured bone marrow fibroblasts by tyrphostins," <i>Experimental Cell Research</i> , <b>1992</b> , 199, 255-261	
	<b>BE</b>	Brzustowicz, L. M., et al., "Linkage of Familial Schizophrenia to Chromosome 13q32," <i>Am. J. Hum. Genet.</i> , <b>1999</b> , 65, 1096-1103	
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<b>OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)</b>			
	<b>BF</b>	Burke, T. R., et al., "Bicyclic compounds as ring-constrained inhibitors of protein-tyrosine kinase p56 <sup>lck</sup> ," <i>J. Med. Chem.</i> , <b>1993</b> , 36(4), 425- 432	
	<b>BG</b>	Burke, T. R., et al., "Arylamides of hydroxylated isoquinolines as protein-tyrosine kinaseinhibitors," <i>BioOrganic Med. Chem. Ltrs.</i> , <b>1992</b> , 2(12), 1771-1774	
	<b>BH</b>	Cane, D. E., et al., "Harnessing the Biosynthetic Code: Combinations, Permutations, and Mutations," <i>Science</i> , <b>Oct. 1998</b> , 282, 63-68	
	<b>BI</b>	Cao, Q., et al., "Suggestive Evidence for a Schizophrenia Susceptibility Locus on Chromosome 6q and a Confirmation in an Independent Series of Pedigrees," <i>Genomics</i> , <b>1997</b> , 43, 1-8	
	<b>BJ</b>	Capecchi, M. R., "Altering the genome by homologous recombination," <i>Science</i> , <b>1989</b> , 244, 1288-1292	
	<b>BK</b>	Chambers, R. C., et al., "Thrombin stimulates fibroblast procollagen production via proteolytic activation of protease-activated receptor 1," <i>Biochem J.</i> , <b>1998</b> , 333, 121-127	
	<b>BL</b>	Choo, Y., et al., "Promoter-specific activation of gene expression directed by bacteriophage-selected zinc fingers," <i>J. Mol. Biol.</i> , <b>1997</b> , 273, 525-532	
	<b>BM</b>	Cicala, C., et al., "Bronchoconstrictor effect of thrombin and thrombin receptor activating peptide in guinea-pigs in vivo," <i>Br. J. Pharmacol</i> , <b>1999</b> , 126, 478-484	
	<b>BN</b>	Cirino, G., et al., "Thrombin functions as an inflammatory mediator through activation of its receptor," <i>J. Exp. Med.</i> , <b>1996</b> , 183, 821-827	
	<b>BO</b>	Colotta, F., et al., "Expression of monocyte chemotactic protein-1 by monocytes and endothelial cells exposed to thrombin," <i>Am. J. Pathol</i> , <b>1994</b> , 144, 975-985	
	<b>BP</b>	Conklin, B. R., et al., "Substitution of three amino acids switches receptor specificity of G <sub>q</sub> α to that of G <sub>i</sub> α," <i>Nature</i> , <b>1993</b> , 363, 274-276	
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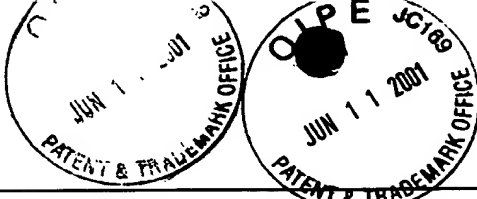
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	<b>BQ</b>	Cosman, D., et al., "High Level Stable Expression of Human Interleukin-2 receptors in Mouse Cells Generates only Low Affinity Interleukin-2 Binding Sites," <i>Mol. Immunol.</i> , <b>1986</b> , 23(9), 935-941	
	<b>BR</b>	Cosman, D., et al., "Cloning, sequence and expression of human interleukin-2 receptor," <i>Nature</i> , <b>1984</b> , 312, 768-771	
	<b>BS</b>	Craik, C. S., "Use of Oligonucleotides for Site-Specific Mutagenesis," <i>BioTechniques</i> , <b>Jan/Feb 1985</b> , 12-19	
	<b>BT</b>	Curtin, N. J., et al., "Inhibition of the growth of human hepatocellular carcinoma <i>in vitro</i> and in athymic mice by a quinazoline inhibitor of thymidylate synthase, CB3717," <i>J. Cancer</i> , <b>1986</b> , 53, 361-368	
	<b>BU</b>	Dayoff, in <i>Atlas of Protein Sequence and Structure</i> , <b>1972</b> , National Biochemical Research Foundation, Washington, D.C., 5, 124	
	<b>BV</b>	DiCuccio, M. N., et al., "A functional tethered ligand thrombin receptor is present on human hematopoietic progenitor cells," <i>Exp. Hematol</i> , <b>1996</b> , 24, 914-918	
	<b>BW</b>	Dolle, R. E., et al., "5,7-dimethoxy-3-(4-pyridinyl)quinoline is a potent and selective inhibitor of human vascular $\beta$ -type platelet-derived growth factor receptor tyrosine kinase," <i>J. Med. Chem.</i> , <b>1994</b> , 37, 2627-2629	
	<b>BX</b>	Dong, Z., et al., "Activation of tumoricidal properties in macrophages by lipopolysaccharide requirements protein-tyrosine kinase activity," <i>J. Leukocyte Biology</i> , <b>1993</b> , 53, 53-60	
	<b>BY</b>	Dong, Z., et al., "Protein tyrosine kinase inhibitors decrease induction of nitric oxide synthase activity in lipopolysaccharide-responsive and lipopolysaccharide-nonresponsive murine macrophages," <i>J. Immunol.</i> , <b>1993</b> , 151(5), 2717-2724	
	<b>BZ</b>	Donovan, F. M., et al., "Thrombin induces apoptosis in cultured neurons and astrocytes via a pathway requiring tyrosin kinase and RhoA activities," <i>J. Neurosci</i> , <b>1997</b> , 17(14), 5316-5326	
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<b>OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)</b>			
	<b>CA</b>	Dooley, C. T., et al., "Binding and in vitro activities of peptides with high affinity for the nociceptin/orphanin FQ receptor, ORL1," <i>J. Pharmacology and Experimental Therapeutics</i> , 1997, 283(2), 735-741	
	<b>CB</b>	Douglas, A. M., et al., "Direct sequencing of double-stranded PCR products incorporating a chemiluminescent detection procedure," <i>Biotechniques</i> , 1993, 14, 824-828	
	<b>CC</b>	Drmanac, R., et al., "DNA Sequence Determination by Hybridization A Strategy for Efficient Large-Scale Sequencing," <i>Nature Biotechnology</i> , 1998, 16, 54-58	
	<b>CD</b>	Drmanac, S., et al., "Accurate sequencing by hybridization for DNA diagnostics and individual genomics," <i>Science</i> , June 1993, 260, 1649-1652	
	<b>CE</b>	Dunlop, J., et al., "Characterization of 5-HT <sub>1A</sub> receptor functional coupling in cells expressing the human 5-HT <sub>1A</sub> receptor as assessed with the cytosensor microphysiometer," <i>J. Pharmacological and Toxicological Methods</i> , 1998, 40(1), 47-55	
	<b>CF</b>	Fernandes, D. J., et al., "Biochemical and antitumor effects of 5,8-dideazaisopteroylglutamate, a unique quinazoline inhibitor of thymidylate synthase," <i>Cancer Research</i> , 1983, 43, 1117-1123	
	<b>CG</b>	Ferris, J. P., et al., "Synthesis of Quinazoline Nucleosides from Ribose and Anthranilonitrile. Application of Phase-Transfer Catalysis in Nucleoside Synthesis," <i>J. Org. Chem.</i> , 1979, 44(2), 173-178	
	<b>CH</b>	Fields, S., et al., "A novel genetic system to detect protein-protein interactions," <i>Nature</i> , 1989, 340, 245-246	
	<b>CI</b>	Fields, S., et al., "The two-hybrid system: an assay for protein-protein interactions," <i>Trends in Genetics</i> , 1994, 10, 286-292	
	<b>CJ</b>	Fischer, S. G., et al., "DNA fragments differing by single base-pair substitutions are separated in denaturing gradient gels: Correspondence with melting theory," <i>Proc. Natl. Acad. Sci. USA</i> , 1983, 80, 1579-1583	
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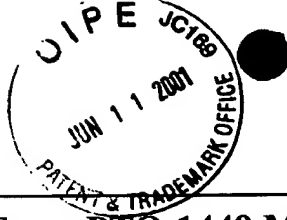




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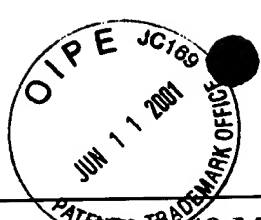


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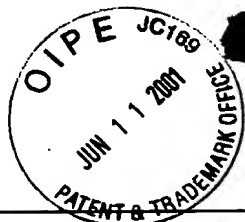
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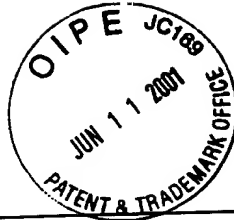
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